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JP1282387A2:PRODUCTION OF ELASTIC POLYURETHANE YARN

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Nov. 14, 1989 / May 10, 1988

JP1988000113840

[D06M 13/36](#); [D06M 13/02](#); [D06M 15/643](#);

Purpose: To prevent the sticking of fibers immediately after spinning and to improve the unreeling property by compounding a conventional oiling agent with a polyorganosiloxane having a cyclic structure and a specific amine and feeding the obtained compounded oil in the production of an elastic polyurethane yarn.

Constitution: An elastic polyurethane yarn is produced by kneading a polyisocyanate prepolymer as a crosslinking agent. In the above process, said filament yarn is supplied with 1W10% of a compounded oil produced by mixing (A) a mineral oil and/or a straight-chain polyorganosiloxane (e.g., dimethylpolysiloxane) with (B) a polyorganosiloxane having a cyclic structure and (C) a diamine of formula (R2 is 1W5C alkyl; X is 0W5C alkylene, etc.). The sticking of the yarn on a spinning bobbin can be prevented by the applied oil to improve the unreeling of the yarn in the following process. The siloxane having a cyclic structure is e.g., a polyalkylsiloxane produced by hydrolyzing and condensing an alkyl-dihalogenated siloxane, etc.

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